

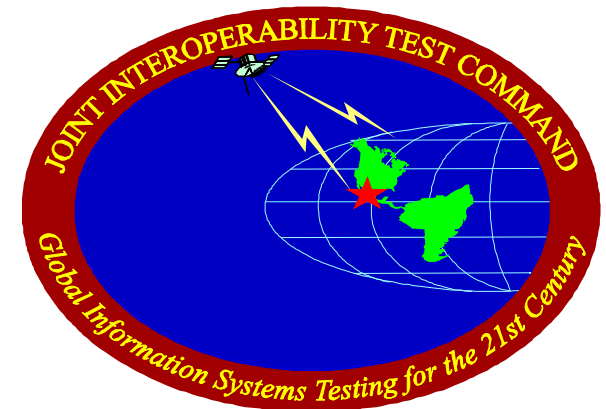
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## **NETWORK ENGINEERING & INTEGRATION LABORATORY (NEIL)**



## **Joint Interoperability Test Command**

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*Support for the Warfighter....Anytime....Anyplace*

## INTRODUCTION

Within the Department of Defense (DOD), the Joint Interoperability Test Command (JITC) has been given the responsibility of certifying that all Command, Control, Communications, Computers and Intelligence (C4I) Systems are interoperable. To conduct interoperability certifications on DOD's C4I systems, the JITC maintains a number of test laboratories, each with a specialized functional area.

The Network Engineering and Integration Laboratory's (NEIL) specialized functional area is testing of the Defense Information Systems Network (DISN). The DISN comprises the Defense Switched Network (DSN), Defense Red Switch Network (DRSN), Unclassified-but-Sensitive Internet Protocol Router Network (NIPRNET), Secret Internet Protocol Router Network (SIPRNET), Joint Worldwide Intelligence Communications System (JWICS) and Video Teleconferencing (VTC) Network. To complete its testing, the NEIL is also capable of connecting to the other JITC Laboratories and other commercial facilities.

## NEIL TESTING

The NEIL conducts interoperability, conformance, and certification testing of the DISN in response to requests from DOD, other Government Agencies and equipment vendors. To conduct DISN interoperability testing the JITC has duplicated existing DISN components and systems.

## TESTING OVERVIEW

The test capabilities of the NEIL include:

### Equipment Interoperability

- ◆ DISN Transport/Edge Switches
  - ◆ FORE Systems ASX 200BX

- ◆ FORE Systems ASX 1100/1200
- ◆ NORTEL Passport Switches
- ◆ IDNX/Promina
- ◆ DACS II
- ◆ Various multiplexers
- ◆ DSN Switches/Devices
  - ◆ EWSD
  - ◆ MSL-100
  - ◆ KNS-4100
  - ◆ STP
- ◆ SIPRNET/NIPRNET/JWICS
  - ◆ Cisco 7500 series routers
- ◆ VTC
  - ◆ Madge
  - ◆ Picturitel

- ◆ DRSN
  - ◆ SDS Family
  - ◆ DSS Family

### Test Procedures

The following are a representation of current procedures conducted in the NEIL:

- ◆ DISN Transport
  - ◆ T1,T3,E1 and SONET
  - ◆ ATM
- ◆ DSN
  - ◆ Alarms/MLPP
  - ◆ Bit Error Rate Testing
  - ◆ Call Capacity/Quality
  - ◆ Switched 56
  - ◆ ISDN/SS7
  - ◆ VTOA

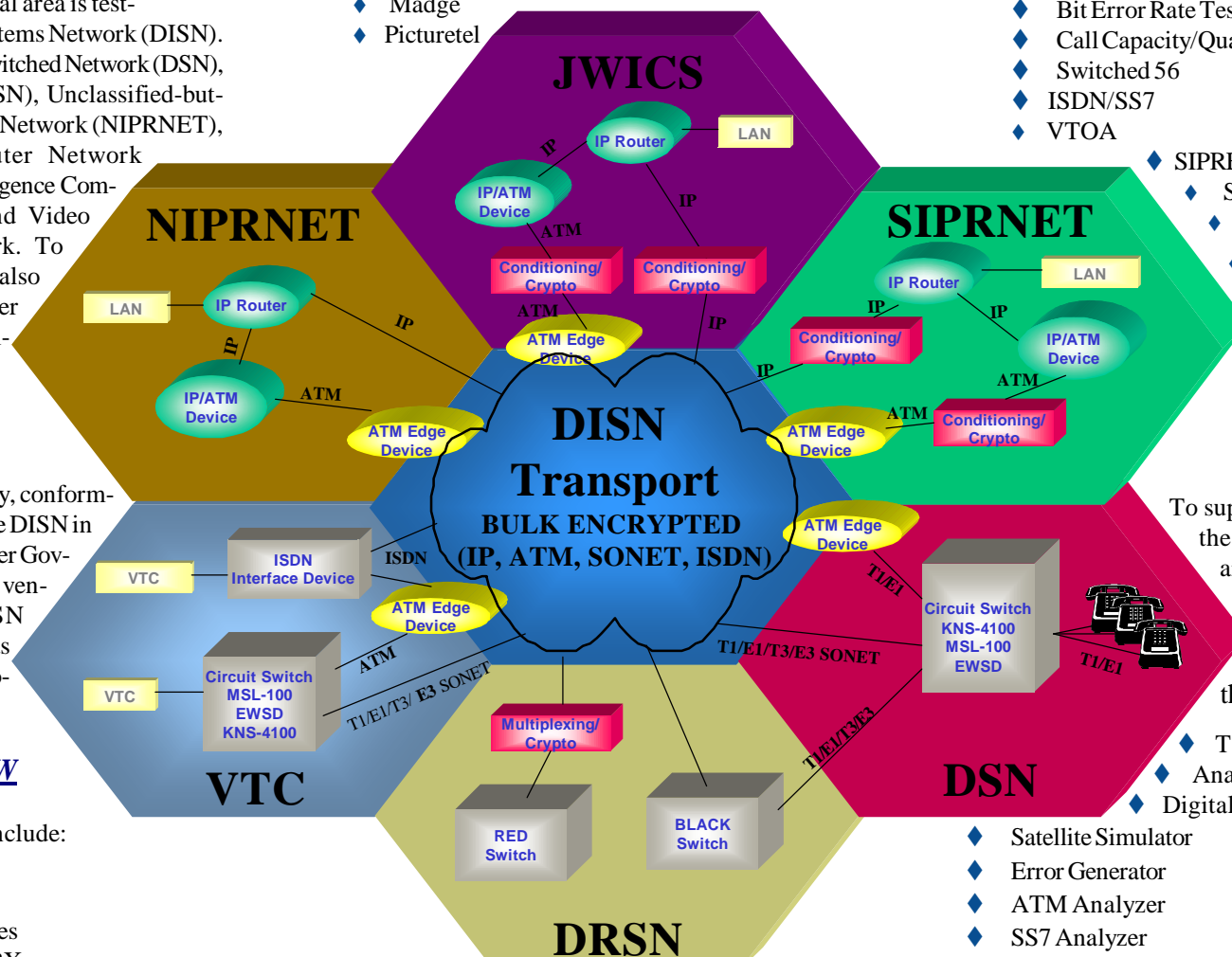
- ◆ SIPRNET/NIPRNET/JWICS
  - ◆ Standards compliance
  - ◆ Performance

- ◆ VTC
  - ◆ ISDN/Switched 56/ATM
  - ◆ DRSN
  - ◆ DSN Interoperability

## ADDITIONAL TEST RESOURCES

To support the test environment, the NEIL is equipped with an array of stand-alone test, measurement and diagnostic equipment (TMDE). The following is a list of some of the NEIL TMDE capabilities:

- ◆ T1/E1 Analyzers
- ◆ Analog Call Loaders
- ◆ Digital Call Loaders
- ◆ Satellite Simulator
- ◆ Error Generator
- ◆ ATM Analyzer
- ◆ SS7 Analyzer
- ◆ ISDN BRI/PRI Analyzer



## NEIL Test Capabilities